## WHAT IS CLAIMED IS:

1	1. An overlay routing processor for transferring information over a
2	computer network, wherein the computer network has a native routing protocol the
3	overlay routing processor comprising
4	instructions for associating computers on the network with a given overlay
5	group;
5	instructions for determining whether received information is associated
7	with the given overlay group; and
3	instructions for routing the received information to the computers
•	associated with the given overlay group by using the native routing protocol.
l	2. The overlay routing processor of claim 1, wherein the native
2	routing protocol defines computers as members of native groups for purposes of routing
3	information among members of a given native group, the overlay routing processor
4	further comprising
5	instructions for identifying a specific native group as an efficient
5	distribution channel for the given overlay group; and
7	wherein the instructions for routing include instructions for using the
3	specific native group to perform the routing.
l	3. The overlay routing processor of claim 2, wherein the instructions
2	for identifying a specific native group include
3	instructions for using a hash function to perform the identification.
l	4. The overlay routing processor of claim 2, wherein multiple overlay
2	processors are coupled together over the network, the overlay routing processor further
3	comprising
Į.	a data table accessed by the processor for defining peer relationships
5	between overlay processors; and
5	wherein the instructions for routing include instructions for using the
7	defined peer relationships between overlay processors to perform the routing.
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1	5. The overlay routing processor of claim 1, wherein an end-user
2	computer is coupled to the network, wherein a first media information source is coupled
3	to the network for sending media information to the network, the overlay routing
4	processor further comprising
5	a data structure associating the media information with a first overlay
6	channel identifier;
7	instructions for receiving a request from the end-user computer to receive
8	the media information;
9	instructions for retrieving the first overlay channel identifier from the dat
10	structure and for associating the first overlay channel identifier with the request; and
11	instructions for routing all or a portion of the media information received
12	by the overlay routing processor to the end-user computer.
1	6. The overlay routing processor of claim 5, wherein a second media
2	information source is coupled to the network for sending media information to the
3	network, the overlay routing processor further comprising
4	instructions for indicating an error condition if a second overlay channel
5	identifier associated with the second media information source is the same as the first
6	overlay channel identifier.
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1	7. The overlay routing processor of claim 2, further comprising
2	instructions for associating a native group with an overlay group; and
3	instructions for changing the association between an overlay group and a
4	native group.
1	8. The overlay routing processor of claim 7, wherein the association
2	between an overlay group and a native group includes defining a range of native multicate
3	addresses.
	udul 03003.
1	9. The overlay routing processor of claim 8, wherein the range of
2	native multicast addresses is defined as an IP4 Class D address and a prefix length.
1	10. The overlay routing processor of claim 1, further comprising
2	instructions for handling administrative scoping.
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1	11. The overlay routing processor of claim 1, further comprising
2	instructions for servicing plugin modules.
1	12. The overlay routing processor of claim 1, further comprising
2	instructions for placing a limit on the number of transfers between
3	computers for a given portion of information.
1	13. The overlay routing processor of claim 12, wherein information is
2	transferred between the computers in packets, the overlay routing processor further
3	comprising
4	instructions for placing a "time-to-live" value in a field in a packet
1	14. The overlay routing processor of claim 1, further comprising
2	instructions for preventing the transfer of information between
3	predetermined computers.
1	15. The overlay routing processor of claim 14, wherein one or more
2	computers are identified by an address, the overlay routing processor further comprising
3	using the address to prevent the transfer of information between
4	predetermined computers.
1	16. A routing device in a computer network, the device comprising
2	instructions for detecting a client request for content information from a
3	client computer;
4	instructions that identify a processor for handling the client request;
5	instructions that obtain communication information from the processor;
6	instructions that transmit the communication information to the client
7	computer, wherein the communication information provides the client computer with a
8	preferred way to communicate with the routing processor.
1	17. The server of claim 16, wherein the instructions that identify a
2	processor include
3	instructions that provide a uniform resource locator to the client compute

1	18. The server of claim 17, wherein the instructions that identify a
2	processor include
3	instructions that provide an overlay address corresponding to the content
4	information to the client computer.
1	19. A device in a computer network, the device comprising
2	instructions that detect a client request for content information from a
3	client computer;
4	instructions that identify a processor for handling the client request;
5	instructions that obtain a communication resource from the processor to be
6	used to facilitate transfer of information between the client computer and the processor;
7	instructions that transmit the communication information to the client
8	computer, wherein the communication information provides the client computer with a
9	preferred way to communicate with the processor.;
10	instructions that obtain from the identified processor a communication
11	resource to allow transfer of information between the client computer and the processor;
12	and
13	instructions for transferring information about the communication resource
14	to the client computer.
1	20. The device of claim 19, wherein the communication resource is a
2	port identifier.
1	21. A method for performing overlay routing in a computer network,
2	the computer network including multiple computers coupled to allow information transfer
3	over the computer network, the computer network having a native routing protocol, the
4	method comprising the following
5	associating computers on the network with a given overlay group;
6	determining whether received information is associated with the given
7	overlay group; and
8	routing the received information to the computers associated with the
9	given overlay group by using the native routing protocol.

1	22. A computer-readable media programmed with instructions for
2	performing overlay routing in a computer network, the computer network including
3	multiple computers coupled to allow information transfer over the computer network, the
4	computer network having a native routing protocol, the instructions including
5	instructions for associating computers on the network with a given overlay
6	group;
7	instructions for determining whether received information is associated
8	with the given overlay group; and
9	instructions for routing the received information to the computers
10	associated with the given overlay group by using the native routing protocol
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